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## INTRODUCTION

We would like to thank you for purchasing a Gearmore product and we assure you that you have made a good choice, as now you have a very high quality machine. Please follow all instructions contained in this manual for a long and trustworthy machine life.

Know your controls. Read this manual and the manual provided with your tractor before operating your equipment. Keep this manual handy for ready reference. Learn how to stop the tractor engine and spreader quickly in case of an emergency. DO NOT allow adults without proper instructions or children to operate machinery. Require all operators to read this manual carefully and become acquainted with all adjustments and operating procedures before attempting to operate the equipment. Replacement manuals can be obtained from your selling dealer.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Please observe all safety information in this manual and safety decals on the equipment.

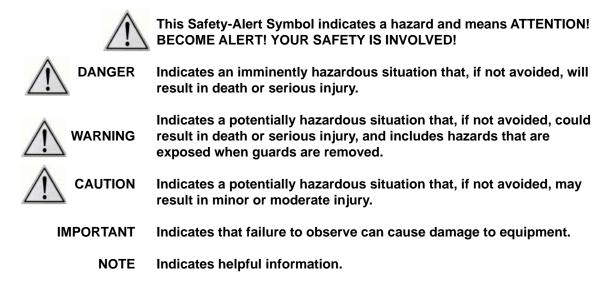


It is IMPORTANT to read this manual carefully before operating the spreader!

For service, your authorized dealer has trained mechanics, genuine service parts, and the necessary tools and equipment to handle all of your service needs.

Use only genuine service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the warranty page of this manual.

Throughout this manual, the term <u>IMPORTANT</u> is used to indicate that failure to observe procedures can cause damage to equipment. The terms <u>CAUTION</u>, <u>WARNING</u> and <u>DANGER</u> are used in conjunction with the Safety-Alert Symbol, (a triangle with an exclamation mark), to indicate the degree of hazard for items of personal safety.



## SAFETY DECALS



#### **ATTENTION!**

Be sure that the safety labels are readable. Clean them up using a cloth, water and soap. Replace the damaged labels placing them in the right position, as subsequently described.

The safety signs on the machine supply the most important indications; their observance helps your safeness.



**1. ATTENTION!** Before making any operation on the machine, stop the engine of the tractor or of the self-moving means, remove the key, put on the parking brake and read carefully the operator's manual.



**3. ATTENTION!** Check the sense of rotation and the number of revolutions (540 rpm) of the tractor power before placing the PTO shaft.



**4. ATTENTION! - DANGER** Possible throwing of material and/or objects, please do not stop or come up to the machine. Keep a safety distance of 50 feet, at least, from the machine.



**2. ATTENTION! DANGER** of entangling and dragging. Do not put hands near the running gearbox.



**4. ATTENTION! DANGER** of crushing. Do not stop between the machine and the tractor when the tractor engine is running.

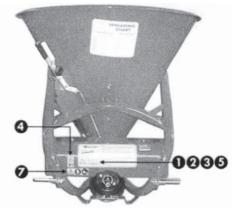


**6. ATTENTION! DANGER** of shearing. Do not approach limbs to the spreader disc when the machine is running.



7. ATTENTION! Use the individual Protection Devices, as required.

#### Where to place the safety decals on the machine





## **PREPARATION CHECKLIST**

#### THIS CHECKLIST TO REMAIN IN OWNER'S MANUAL

IT IS YOUR RESPONSIBILITY TO COMPLETE THE PROCEDURES LISTED

BELOW BEFORE OPERATING THE SPREADER

#### **Preparation Check List**

- □ 1. Implement is completely assembled.
- □ 2. Inspect for damage and loose or missing parts
- □ 3. All decals in place and readable.
- □ 4. All fittings and drive components are secure.
- **5**. Overall condition good.
- □ 6. Check hopper for any foreign objects.
- **7**. Operator has been instructed on the safe and proper use of the implement.
- **8**. Lubrication See *Lubrication & Maintenance* Section

The purpose of this manual is to assist you in operating and maintaining your spreader for years of service. Read it carefully. The information and instructions in this manual have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing, but because we maintain an ongoing program of product improvement, we reserve the right to make improvements in design or changes in specifications without incurring any obligation to install them on units previously sold. Because of the possibility that some photographs in this manual were taken of prototype models, production models may vary in some detail.

#### All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

#### **RETAIL CUSTOMER'S WARRANTY RESPONSIBILTY**

It is the Retail Customer and/or Operator's responsibility to read the Operator's Manual, to operate, lubricate, maintain and store the product in accordance with all instructions and safety procedures. Failure of the operator to read the Operator's Manual is a misuse of this equipment. It is the Retail Customer and/or Operator's responsibility to inspect the product and to have any part(s) repaired or replaced when continued operation would cause damage or excessive wear to other parts or cause a safety hazard. It is the Retail Customer's responsibility to deliver the product to the authorized dealer from whom he purchased it, for service or replacement of defective parts which are covered by warranty. Repairs to be submitted for warranty consideration must be made within thirty (30) days of failure. It is the Retail Customer's responsibility for any cost incurred by the dealer for traveling to or hauling of the product for the purpose of performing a warranty obligation or inspection.

## **ASSEMBLING THE SPREADER**



**1.**) Assemble the gearbox to the frame with 8 x 16 bolts.



**2.**) Use this pin to fix the disc to the shaft.



**3.)** Install the retainer to hold the disc in place.



**4.**) Place the PVC hopper on the frame.



**5.**) Install the 2 opening levers.



**6.**) Regulate the slides on their rods.

### ASSEMBLING THE SPREADER



**7.**) Drill holes in PVC hopper, then bolt in place.





**9.**) Install the lower hitch pins.

**8.**) Put the lower agitator and the holding rubber cap on.

## SAFETY INFORMATION

# OPERATIONAL SAFETY

It is absolutely necessary to empty the hopper before lowering the spreader to the ground.

Guards and safety shields are for your protection. **DO NOT** operate equipment unless they are in place.

ALWAYS engage tractor PTO at engine idle.

Disengage tractor PTO and shift into neutral before attempting to start engine.

Read and observe all safety decals on the tractor and spreader.

**NEVER** allow anyone, other than the operator, within 25' of machine while in operation.

**DO NOT** stop or start suddenly when going uphill or downhill. Avoid operation on steep slopes.

Be alert for holes in terrain and other hidden hazards. **ALWAYS** drive slowly over rough ground.

Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Be careful when changing directions on slopes.

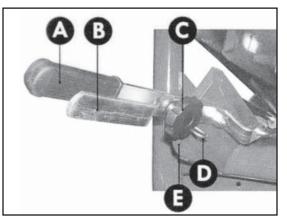
Take all possible precautions when leaving tractor unattended: Disengage PTO, lower spreader, shift into neutral, set parking brake, stop engine and remove key from ignition.

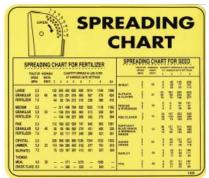
Front tractor weights or front tire ballast should be used to enhance front-end stability on small tractors.

## **ADJUSTING THE SPREAD**

The fertilizer spreading is regulated through the regulation lever that moves the opening section on the bottom of the hopper.

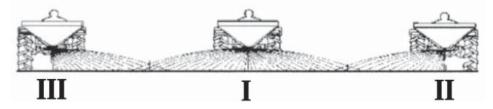
In order to carry out the regulation, after having consulted the spreading table, according to the type of product to spread and to the spreader speed, it is necessary to move the lever "A" along the graduated scale "E" and blocking it in the chosen position with the pin "D".





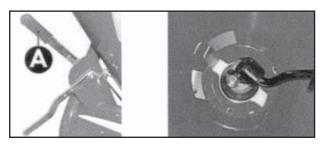
See this chart on the next page

In order to spread from both sides (ref. I), "A" and "B" levers must be in the same position, connected through grip handle "C".

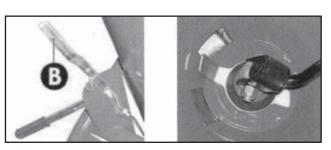


In order to carry out the spreading only through the left side (ref. II), it is necessary to disconnect the two levers removing the "C" grip handle, to set the lever "A" in the chosen position, given by the spreading chart, and to bring the lever "B" towards the higher part (position 1) in order to close the shutter of the right side.

In order to spread only on the right side (ref. III) you have to move the lever "A" up, (in position 1) and regulate the quantity to spread with the lever "B".



Distribution on right side (ref. III)



Distribution on left side (ref. II)

## SPREADING CHART

U	RT FOR SEED	AT VARIOUS GATE SETTINGS 5 6 7 8	268	115	645 387 277	161 97 69	642 385 275	660 396 283	271 163 116	186 111 80	186 111 80	108
	R SI	S GATE	129	55	340 204 146	85 51 36	333 200 143	311 186 133	131 79 56	81 49 35	81 49 35	
Z	<b>G</b> I		46	22	163 98 70	000	167 100 72	131 78 56	49 21	25 15 11	25 15	
	IAR		00	00	43 26 19	000	44 26	885	000	000	000	
	LO C	WIDTH (FEET)	6	5	31	19	31	12	52	49	40	
	ADING CH	SPEED (MPH)	<b>с</b> и	- 10	400	4010	40.0	40.0	403	40.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
N I	SPREADING CHART FOR SEED	55 6	WILE AT	WHEAT	ALFALFA & CLOVER	FESCUE & RYEGRASS	RED CLOVER	KENTUCKY BLUE GRASS & BERMUDA GRASS	SUDAN GRASS	BARLEY	RYE	
			8,5	4040	624	1182	394	1051 526 351	1632 816	544	1.1	1
-	ZER	ACRE	NGS 8	440	220	1118	373	963 482 321	1522 761	507	1685 843	
	CHART FOR FERTILIZER	QUANTITY SPREAD IN LBS/ ACRE	AT VARIOUS GATE SETTINGS 4 5 6 7 1	1011	507	1025	342	842 421 280	1354 677	451	1.1	
S	E	SPREAL	US GA	000	465	925	309	747 374 249	1236 618	412	1270 635	
	Ö	L	VARIC 5		318		355 237	529 265 177	890 445	297	11	
8 1 2	Ē	QUAN	AT 4		201 201		149	322 166 111	560	187	- 571	
m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<b>IAF</b>	į.	3	1.00	123		104	189 95 63	368	123	11	
× × × × × × × × × × × × × × × × × × ×	さ	1 9	2	5	99	ŧ I	11	112 56 37	226	75	1.1	
OPEN .	DING	TRACTOR WORKING	WIDTH (FEET)		60		8	40	53		50	
i O	EAC	CTOR	SPEED (MPH)	u c	5,0 7,5	2,5	5,0 7,5	2,5 5,0 7,5	2,5 5,0	7,5	4,0 () 8,0	
	SPREADING	TRA	SF N	1 ADOF	GRANULAR GRANULAR GEDTII IZED	MEDIUM	GRANULAR	FINE Granular Fertilizer	CRYSTAL. (AMMON.	SILPHATE) THOMAS	MEAL (BASIC SLAG)	

## ADJUSTMENT

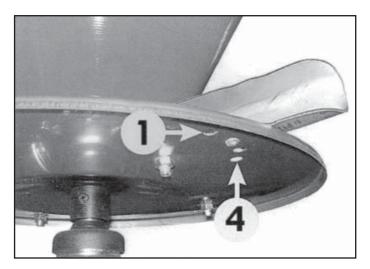
#### • ADJUSTMENT

It is not possible to have an exact spreading chart for equipment that makes use of the centrifugal principle, as the distributed quantity depends on the speed, on the radius of distribution, on the quality and humidity of the fertilizer, and on the roughness of the land.

The fertilizer must always be stored and conserved adequately, so as to keep its physical characteristics unchanged.

#### • HOW TO ADJUST THE SPREADER VANES

The disc vanes can be set in 4 different positions. Position #1 increases the distribution to the left. Position #4 increases the distribution to the right. For normal even spreading, use holes #2 and #3.



Spreading disc's vanes settings

## **LUBRICATION & SERVICE**

Before every use and after every 8 hours of effective work, carry out the greasing of the machine.

Make sure the greasing zerks are well cleaned from mud or other residuals before using them to inject lubricating grease. Lubricate with lithium grease the points, shown in the picture.





Point to grease

#### **REPLACEMENT OF THE SPREADER VANES**

In case the spreadinbg vanes of the disc break or get damaged, it is necessary to replace them with new ones.



Unscrew the nut and replace the damaged vane.

The fixing items (nuts and bolts) must be of the same type as those provided from the manufacturer.

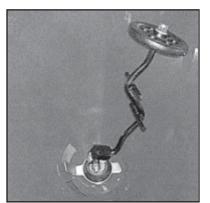
## **GENERAL INFORMATION & OPTIONS**

The spreaders are equipped with a stainless steel disc with 4 adjustable vanes in 4 different positions. The vanes are bolted in place in the most used position.

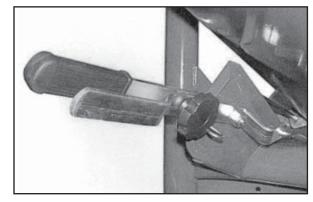


Spreader Disc

The feeding of the disc is by gravity through an opening, located on the bottom of the hopper, inside of which a mix/agitator is applied, in order to prevent the fertilizer lumps formation. A sheet case is placed in front of the disc, in order to prevent the spreading in the front side of the machine.



**Optional** Agitator



Lever System

If the material you are spreading does not flow evenly, a longer optional agitator is available.

If band spreading on rows is required, a one or two row band spreading attachment is available. This attachment is easy to bolt up to all models of our 3-point hitch spreaders.



## **OPERATION**



**NEVER** put hands or hand held tools in spreader while PTO is engages and gearbox is turning. Failure to follow warning can result in personal injury and/or damage to the spreader.

- A) Make sure spreader is properly assembled and secure to 3-point hitch
- **B**) Before using spreader, make sure that the spreading disc is in a horizontal position, about 2 ½ feet fromt the ground.
- C) Place material to be spread in hopper.
- **D**) Set levers in position needed for your spreading application. (*See page 8 for tables*)
- **E**) Engage tractor PTO at engine idle.

NOTE: Never engage PTO above engine idle

## MAINTENANCE

#### **LUBRICATION -**

**DRIVESHAFT** - The driveshaft must be lubricated before the spreader is put into use. After that, grease *every 8 hours*. It is also necessary, from time to time, to untelescope the driveshaft to clean and re-grease tubings.

GEARBOX - Grease every 40 hours.

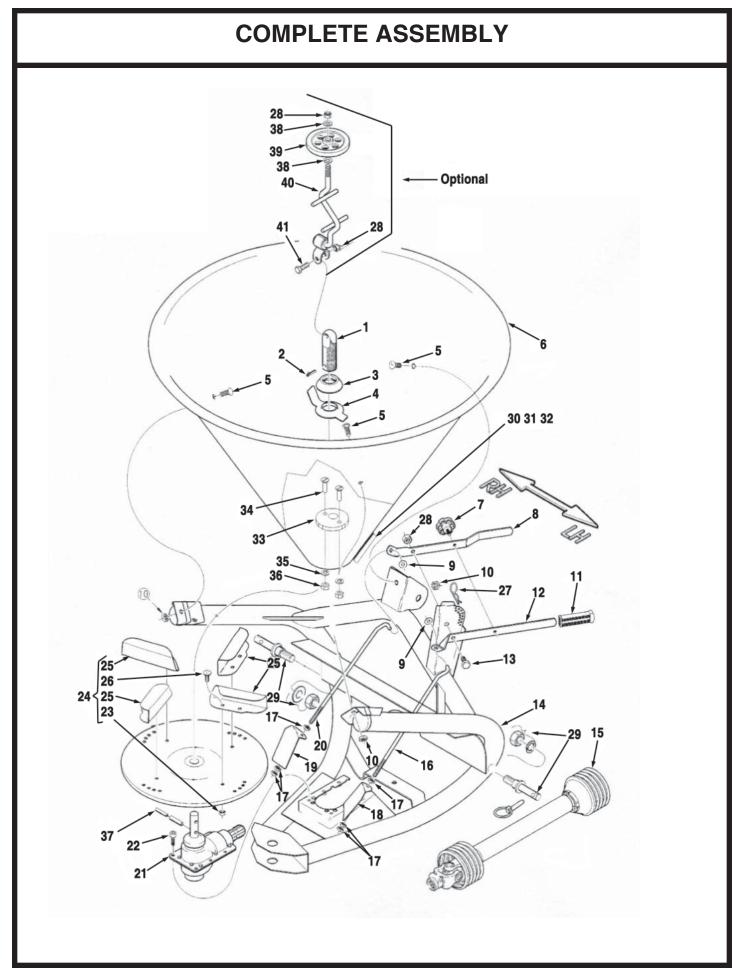
#### **CLEANING AND STORAGE -**

- Wash hopper with water after each use.
- Never let material build-up on shutters or in the hopper.
- Check spreader for needed repairs before using again.

#### **SAFETY INFORMATION -**

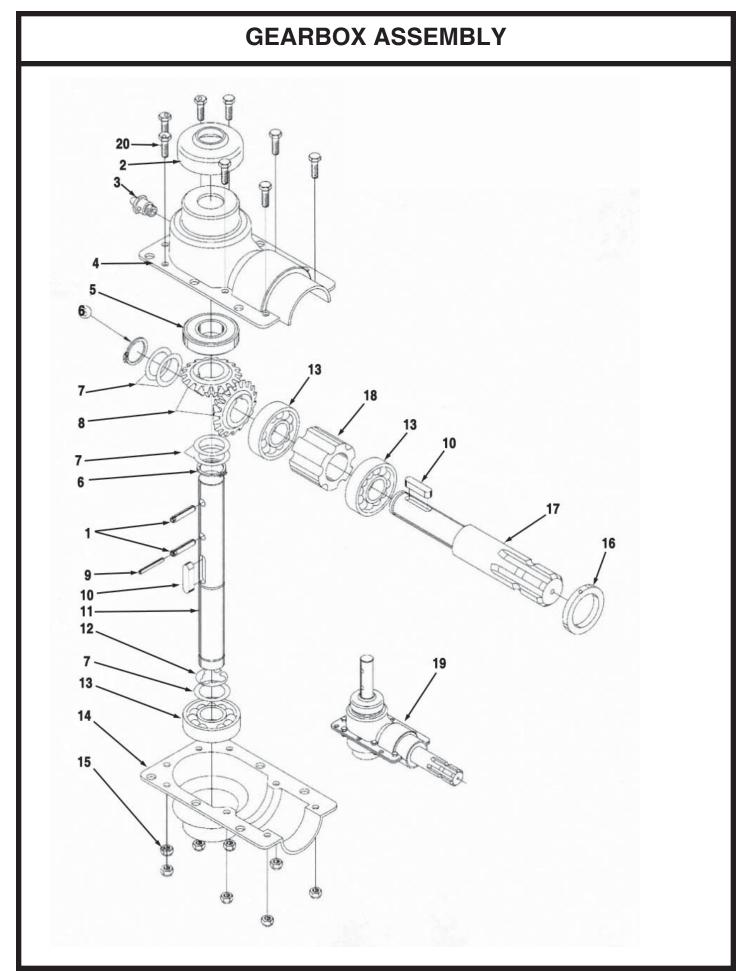
#### **SAFETY TIPS:**

- 1. Always wear relatively tight and belted clothing when operating spreader. Loose clothing should not be worn, as it could get caught in the moving parts or controls of spreader.
- 2. Spreader should be operated only by qualified personnel.
- **3.** When starting spreader, always maintain a safe distance from moving parts.
- 4. Keep hands, feet, and clothing away from all moving parts.



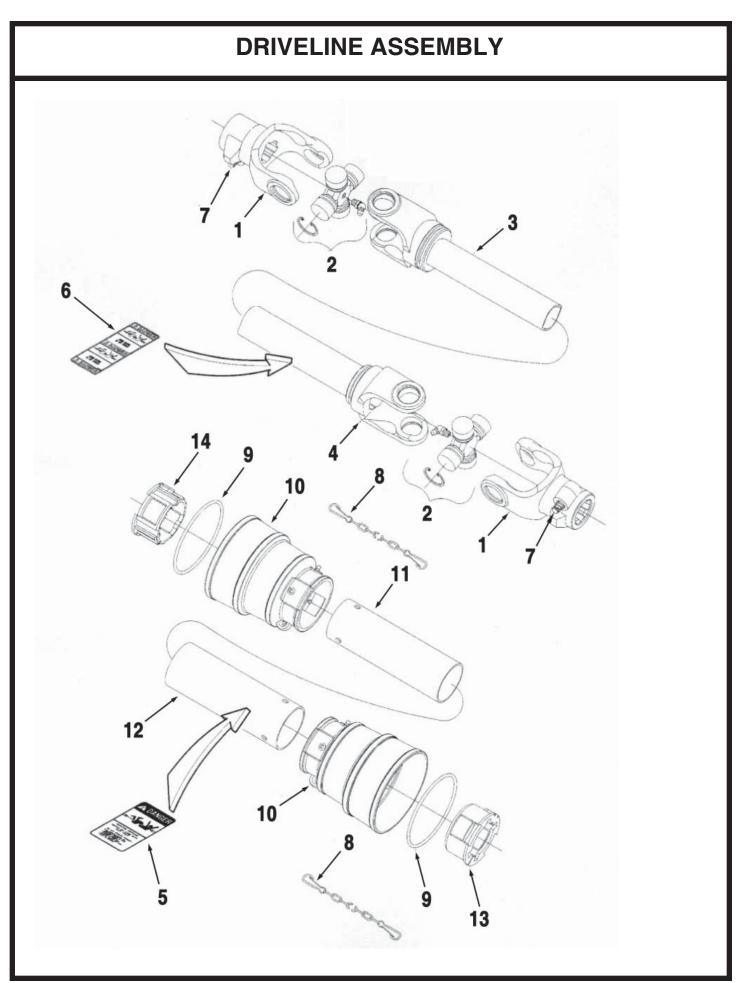
## COMPLETE ASSEMBLY

<u>REF #</u>	PART NO.	DESCRIPTION
1	330.001	Agitator Shaft
2	305.001	Spring Pin 8 x 40
3	304.013	Rubber Ring
4	619.002	Lower Agitator
5	300.044	Screw 10 x 20
6	609.039	Complete PVC 480#
6	609.035	Complete PVC 765#
6	609.037	Complete PVC 1000#
7	302.003	Lever Lock Knob
8	604.001-PL	Right Lever Straight PL
9	303.009	Flat Washer 10.5 x 21 UNI 6592
10	301.010	Hex Nut M10 UNI 5588
11	304.008	Rubber Grip
12	604.002	Left Lever
13	300.024	Hex Head Screw 12 x 35 UNI 5739
14	613.003	Frame "Pin" Style
15	311.001	Driveline
16	602.002	Left Tie Rod
17	803.279C	Hex Nut M10 x 1.5
18	605.006	Left Shutter
19	605.005	Right Shutter
20	602.001	Right Tie Rod
21	322.002	Gearbox
22	300.014	Hex Socket Head Cap Screw 8 x 16
23	301.012	Hex Nut M8 UNI 5588
24	610.064	Spreader Disk w/Stainless Steel Vane
25	601.002	Stainless Steel Distributor Vane
26	300.030	Round Head Screw 8 x 16 UNI 5731
27	307.001	Hair Pin Cotter
28	301.008	Self Locking Nut M12
29	633.001	Lower Link Pin
30	622.030	Lateral Slide RH
31	622.027	Lateral Slide Center
32	622.031	Lateral Slide LH
33	614.002	Plate Bottom Hopper
34	300.040	Screw 8 x 20
35	303.013	Washer 8 x 24
36	301.012	Hex Nut M8 UNI 5588
37	305.003	Spring Pin 5 x 40
38	303.026	Flat Washer 13 x 25 UNI 6592
39	304.011	Buffer Wheel
40	613.009	Agitator Frame Upper
41	802.654C	M12 x 1.75 x 55 Gr 8.8



## GEARBOX ASSEMBLY (322.002)

<u>REF #</u>	PART NO.	DESCRIPTION
1	305.001	Spring Pin 8 x 40
2	304.002	Output Shaft Cowling
3	306.002	Grease Nipple
4	314.002	Upper Shell
5	310.001	Ball bearing Output Top
6	313.011	Internal Retainer Ring
7	303.011	Washer 25 x 35 x 0.5 DIN 988
8	316.003	Pinion Gear
9	305.003	Split Pin
10	326.003	Spline Key
11	323.009	Output Shaft
12	313.010	External Retainer Ring
13	310.002	Ball Bearing In/Output
14	314.001	Lower Shell
15	301.009	Self Locking Nut M6
16	309.001	Input Shaft Oil Seal
17	323.008	Input Shaft
18	329.011	Spacer Input Shaft
19	322.002	Gearbox
20	300.026	Hex Head Cap Screw



## DRIVELINE ASSEMBLY

#### DESCRIPTION

9 1211233 Stiffening Ring   10 1781003 Standard Soft Cone   11 1871031 Inner Tube   12 1770031 Outer Tube   13 1781005 Tube Bearing (Outer)	1 2 3 4 5 6 7	311.001 1021010 1001020 1991034N 1981032N 818-552C 818-540C 1581038 044321	Driveline Yoke Assembly (Tract End) Cross Assembly (U-joint) Inside Tube with Yoke Outside Tube with Yoke Decal Danger PTO Driveline Decal Danger Guard Miss PTO Complete Push-Pin Kit
11 1871031 Inner Tube   12 1770031 Outer Tube   13 1781005 Tube Bearing (Outer)			5
12 1770031 Outer Tube   13 1781005 Tube Bearing (Outer)			
131781005Tube Bearing (Outer)			
14 1/81004 Tube Bearing (Inner)			

## LIMITED WARRANTY

## GEARMORE INC.

GEARMORE, INC., warrants each new Gearmore product to be free from defects in material and workmanship for a period of twelve (12) months from date of purchase to the original purchaser. This warranty shall not apply to implements or parts that have been subject to misuse, negligence, accident, or that have been altered in any way.

Our obligation shall be limited to repairing or replacement of any part, provided that such part is returned within thirty (30) days from date of failure to Gearmore through the dealer from whom the purchase was made, transportation charges prepaid.

This warranty shall not be interpreted to render us liable for injury or damages of any kind or nature, direct, consequential or contingent, to person or property. This warranty does not extend to loss of crops, loss because of delay in harvesting or any other expenses, for any other reasons.

Gearmore in no way warranties engines, tires, or other trade accessories, since these items are warranted separately by these respective manufacturers.

Gearmore reserves the right to make improvements in design or changes in specification at any time, without incurring any obligations to owners or units previously sold.

GEARMORE, INC. 13477 Benson Ave. Chino, CA 91710

Always refer to and heed machine operating warning decals on machine.

To validate the warranty on this product, please log-in to our website - www.gearmore.com. You will find "warranty registration" listed at the top of our homepage.